

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"heat reflector" and carbon with (nanotube or nanomaterial)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:00
L2	405	reflector and carbon with (nanotube or nanomaterial)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:04
L3	385	reflector and "carbon nanotube"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:05
L4	17	reflector same "carbon nanotube"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:05
L5	0	"zozzag reactro" and "carbon nanotube"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:52

## EAST Search History

L6	0	"zigzag reactro" and "carbon nanotube"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:52
L7	0	"zigzag reactor" and nanomaterial	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:53
L8	386	reactor and nanomaterial	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:53
L9	53	reactor same nanomaterial	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:53
L10	0	"zigzag reactor" same (nanomaterial or nanostructure)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:56

## EAST Search History

L11	163	reactor same (nanomaterial or nanostructure)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 08:56
L12	15	zigzag and nanomaterial	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 09:14
L13	385	reflector and "carbon nanotube"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 09:22
L14	0	(wo00/26138).CCLS.	US-PGPU B; USPAT	OR	OFF	2007/10/31 09:27
L15	0	(00/26138).CCLS.	US-PGPU B; USPAT	OR	OFF	2007/10/31 09:28
L16	0	"00/26138".pn.	US-PGPU B; USPAT	ADJ	ON	2007/10/31 09:28
L17	0	"wo 00/26138".pn.	US-PGPU B; USPAT	ADJ	ON	2007/10/31 09:28
L18	27	smalley and "26138"	US-PGPU B; USPAT	ADJ	ON	2007/10/31 09:29
L19	27	smalley and "26138"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 09:29

## EAST Search History

L20	27	smalley and "00/26138"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 09:30
L21	109	smalley and nucleation and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 09:32
L22	95	smalley and nucleation same nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 09:33
L23	84	smalley and nucleation same nanotube same growth	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 09:33
L24	50	smalley and nucleation same nanotube same growth same pressure	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T	ADJ	ON	2007/10/31 09:33

## EAST Search History

S1	17	jurng.in.	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 10:10
S2	727	"korea institute of science and technology".as.	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 10:11
S3	2	S1 and S2	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 10:15
S4	742	S1 or S2	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 10:11
S5	2	S2 and S1	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 10:16

## EAST Search History

S6	75120	("422").CLAS.	US-PGPU B; USPAT	OR	OFF	2007/10/15 10:27
S7	3	S6 and ("gaseous hydrocarbons" and "metal nitrate" and quartz)	US-PGPU B; USPAT	ADJ	ON	2007/10/15 10:30
S8	3	S6 and ("gaseous hydrocarbons" and "metal nitrate" and quartz)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 10:31
S9	5324	S6 and ("gaseous hydrocarbons" or "metal nitrate" or quartz)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 10:31
S10	7	S6 and ("gaseous hydrocarbons" and "metal nitrate")	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 10:46
S11	72673	("423").CLAS.	US-PGPU B; USPAT	OR	OFF	2007/10/15 10:47
S12	23	S11 and ("gaseous hydrocarbons" and "metal nitrate")	US-PGPU B; USPAT	ADJ	ON	2007/10/15 13:17

## EAST Search History

S13	23	S11 and ("gaseous hydrocarbons" and "metal nitrate")	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 11:23
S14	0	(423/(447.3or447.5or447.7or447b)).CCLS.	US-PGPU B; USPAT	OR	OFF	2007/10/15 11:24
S15	425	(423/447.3).CCLS.	US-PGPU B; USPAT	OR	OFF	2007/10/15 11:24
S16	98	(423/447.5).CCLS.	US-PGPU B; USPAT	OR	OFF	2007/10/15 11:25
S17	166	(423/447.7).CCLS.	US-PGPU B; USPAT	OR	OFF	2007/10/15 11:25
S18	265	(423/445B).CCLS.	US-PGPU B; USPAT	OR	OFF	2007/10/15 11:25
S19	1	S15 and S16 and S17 and S18	US-PGPU B; USPAT	ADJ	ON	2007/10/15 11:26
S20	893	S15 or S16 or S17 or S18	US-PGPU B; USPAT	ADJ	ON	2007/10/15 11:26
S21	6984	("977").CLAS.	US-PGPU B; USPAT	OR	OFF	2007/10/15 11:28
S22	214	S21 and (carbon and flame)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 11:30
S23	13738	S11 and (burner or furnace or "combustion chamber")	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 14:12

## EAST Search History

S24	197	S23 and S21	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 14:06
S25	1521	S11 and ("flame burner "or furnace or "combustion chamber" not "electrical furnace")	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 14:14
S26	4	S25 and S21	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 14:35
S27	4	("carbon nanotubes" or "carbon nanomaterial" or fullerenes) and ("flame burner" or "surface flame" ) and quartz	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 14:46
S28	4	S21 and "carbon nanomaterial" and flame	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 14:57



## EAST Search History

S29	0	S11 and "carbon nanomaterial" and "flame outside the reactor"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 14:58
S30	11	S11 and "carbon nanomaterial" and flame	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 15:08
S31	22	nanomaterial with ("quartz reactor" or burner or flame )	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	AND	ON	2007/10/15 15:56
S32	4528	baum.in.	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	AND	ON	2007/10/15 15:57
S33	6	S32 and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	AND	ON	2007/10/15 15:59

## EAST Search History

S34	6	S32 and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/15 15:59
S35	75142	("422").CLAS.	US-PGPU B; USPAT	OR	OFF	2007/10/16 08:56
S36	77	S35 and quartz and (furnace or heatiS3 or combust\$4 or coil) and (nanotube or nanomaterial or fullerene)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/16 09:49
S37	93	S35 and quartz and (flame or furnace or heatiS3 or combust\$4 or coil) and (nanotube or nanomaterial or fullerene or buckyball)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/16 09:55
S38	72683	("423").CLAS.	US-PGPU B; USPAT	OR	OFF	2007/10/16 09:55
S39	368	S38 and quartz and (flame or furnace or heatiS3 or combust\$4 or coil) and (nanotube or nanomaterial or fullerene or buckyball)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/16 09:56

## EAST Search History

S40	353	S38 and quartz and (flame or furnace or heatiS3 or combust\$4 or coil) and (nanotube or nanomaterial or fullerene or buckyball) and (apparatus or system or device )	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/16 10:21
S41	68	vander adj wal.in.	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/17 07:52
S42	0	S41 and flame and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/17 07:36
S43	1	S41 and flame	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/17 07:36
S44	68	vander- wal.in.	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/17 07:52

## EAST Search History

S45	4	"6974492"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/17 13:44
S46	73417	howard.in.	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/17 13:44
S47	37	S46 and flame and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/17 14:45
S48	2	"5876683".pn.	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/17 14:45
S49	51	"electrostatic precipitator" and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/18 10:54

## EAST Search History

S50	0	("2007/0051237").URPN.	USPAT	ADJ	ON	2007/10/18 10:19
S51	0	"electrostatic precipitat\$3" and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/18 10:24
S52	0	"electrostatic precipitat\$" and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/18 10:24
S53	1	"electrostatic precipitating" and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/18 12:57
S54	0	S49 and S53	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/18 10:25

## EAST Search History

S55	52	S49 or S53	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/18 10:25
S56	109	("electrostatic precipitator" or scrubber) and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/18 10:55
S57	340	"carbon nanotube" and (helical or zigzag) and quartz	US-PGPU B; USPAT	ADJ	ON	2007/10/29 12:25
S58	340	"carbon nanotube" and (helical or zigzag) and quartz	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 12:25
S59	3	"carbon nanotube" and reactor with (helical or zigzag) and quartz	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 13:25

## EAST Search History

S60	1	"carbon nanotube" and reactor with zigzag and quartz	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 13:31
S61	1	"carbon nanotube" and reactor with zigzag	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 13:31
S62	62	"carbon nanotube" and zigzag and quartz	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 13:32
S63	7024	("977").CLAS.	US-PGPU B; USPAT	OR	OFF	2007/10/29 13:41
S64	2	S63 and reactor with (helical or zigzag)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 13:41

## EAST Search History

S65	2	S63 and (helical or zigzag) with reactor	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 13:43
S66	4	S63 and (helical or zigzag) same reactor	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 13:43
S67	27	"helical reactor"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 13:46
S68	1773	reactor with helical	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 13:47
S69	179	S68 and quartz	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 13:48



## EAST Search History

S70	298	"carbon nanotube" and helical and quartz	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 14:01
S71	0	"carbon nanotube" and zigag and quartz	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:06
S72	0	nanomaterial and zigag and quartz	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:07
S73	0	nanomaterial and zigag	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:07
S74	2	zigzag reactor	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:07

## EAST Search History

S75	2	"zigzag reactor"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:08
S76	4968	reflector and flame	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:34
S77	36	S76 and "carbon nanotube"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:34
S78	3	S76 and nanomaterial	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:42
S79	1	"heat reflector" and "carbon nanotube"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:53

## EAST Search History

S80	0	"heat reflector" and nanomaterial	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:54
S81	2102	"heat reflector"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:54
S82	0	"heat reflector" and nanobute	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:58
S83	1	"heat reflector" and nanotube	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:59
S84	317	"heat reflector" and carbon	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	ADJ	ON	2007/10/29 15:59

## EAST Search History

S85	1	("20040201141").PN.	US-PGPU B; USPAT	OR	OFF	2007/10/29 16:03
S86	0	("l29andhelical").PN.	US-PGPU B; USPAT	OR	OFF	2007/10/29 16:04
S87	1	S85 and helical	US-PGPU B; USPAT	ADJ	ON	2007/10/29 16:04
S88	1	S85 and zigzag	US-PGPU B; USPAT	ADJ	ON	2007/10/29 16:05